

Panasonic
BUSINESS

Panasonic Range Review 2022



heating & cooling solutions

Panasonic

AQUAREA



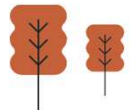
Air-to-water heat pumps



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What happened in 2021?

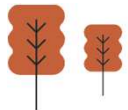
- Monobloc T-CAP J generation (WH-MXC09/12/16)
 - 1 phase available from Jan 2021
 - 3 phase 9&12 kW available from Dec 2021, 16 kW in February
- All in One Compact 12-16 kW (WH-ADC1216H6E5C)
 - Compatible with 12-16 kW High Performance or 9-12 kW T-CAP
- Cascade Manager update
 - Now external demand control possible with Modbus (previously only 0-10V)



What happened in 2021?

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- High efficiency 300L DHW tank (PAW-TD30C1E5-HI)
 - Stainless steel unit, 2.35 m² exchanger surface
- Buffer tanks (PAW-BTANK100L/200L/300L)
 - New 100L, 200L, 300L volume tanks



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The big hit in 2022 – Aquarea EcoFlex

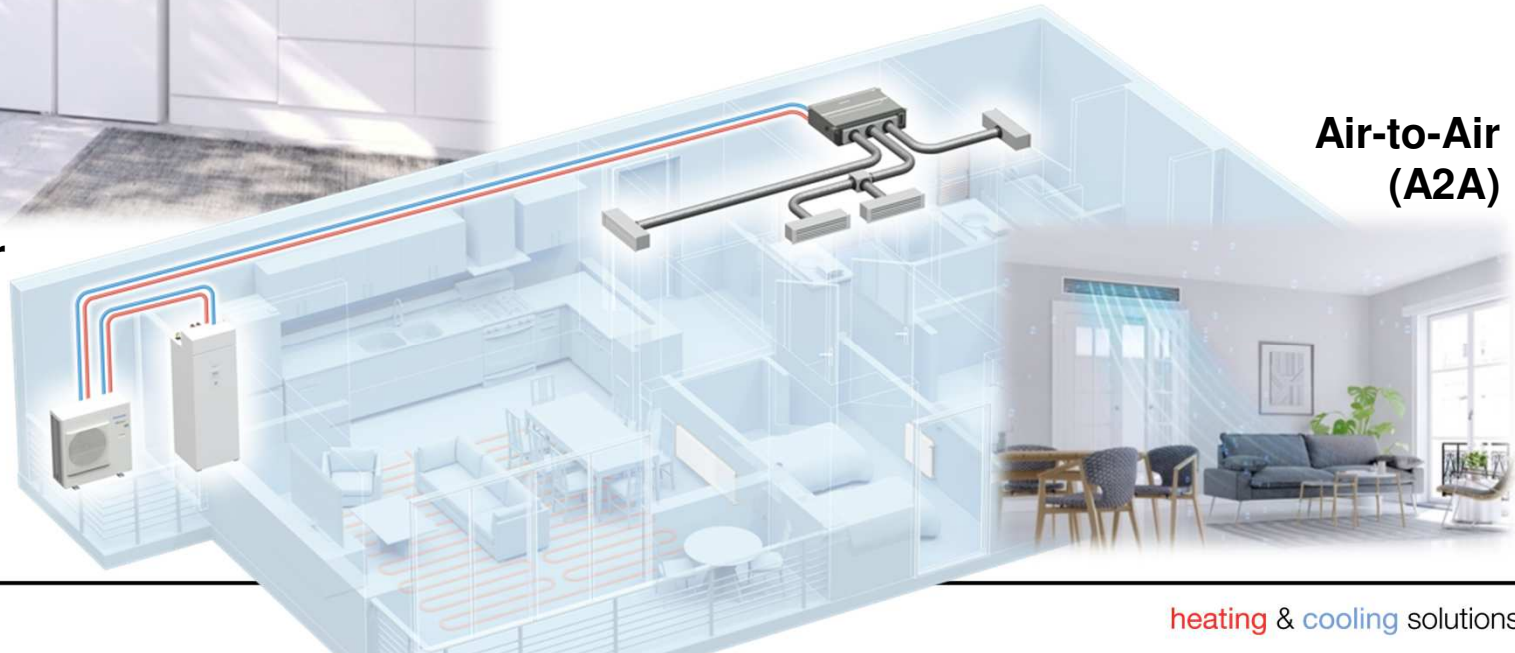
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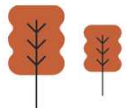
2-in-1, Comfortable all year long

New AQUAREA EcoFlex is a groundbreaking system that delivers Air Conditioning Heating and Domestic Hot Water supply with just one outdoor unit. It has a heat recovery function which uses waste heat from Air Conditioners to heat water. Ideal for installations with limited spaces such as apartments, it is equipped standard with Wi-Fi to enable smart control and energy consumption monitoring. It offers outstanding efficiency and energy savings with low CO₂ emissions.

**Air-to-Water
(A2W)**



**Air-to-Air
(A2A)**



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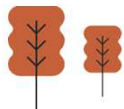
Advantages of AQUAREA EcoFlex

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One Outdoor Unit for synchronous A2A and A2W supply

New AQUAREA EcoFlex delivers Air Conditioning and Domestic Hot Water (DHW) supply with just one outdoor unit. It offers outstanding design and efficiency, ideal for installations with limited spaces such as apartments or housing complexes.



Various system operations

Bi-heating

Simultaneous air heating and DHW

Heat recovery

Re-use wasted heat from the Outdoor Unit for DHW production

Non-stop defrost

Air heating runs continuously even in defrost mode

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Benefits of AQUAREA EcoFlex

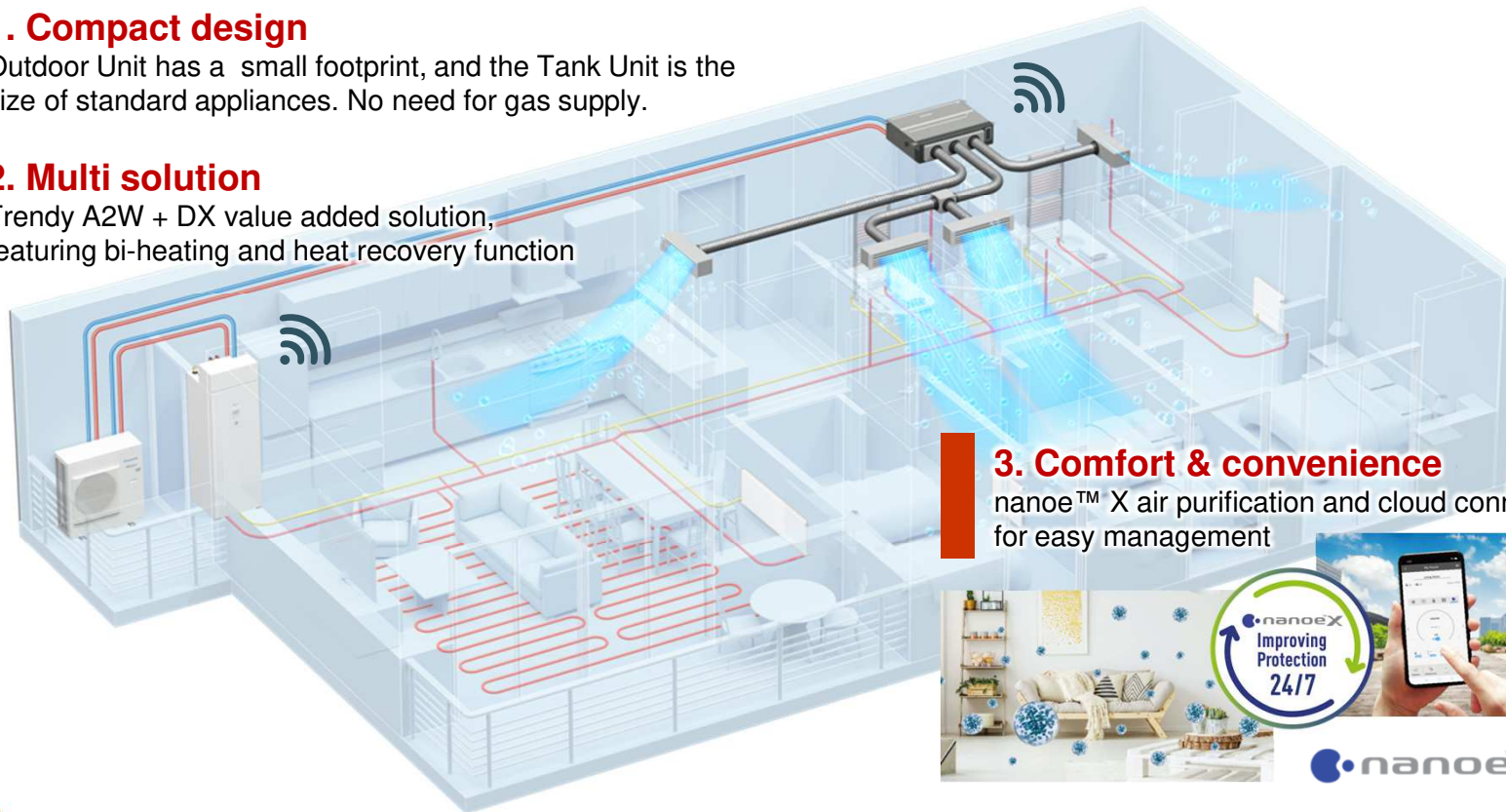
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1. Compact design

Outdoor Unit has a small footprint, and the Tank Unit is the size of standard appliances. No need for gas supply.

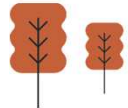
2. Multi solution

Trendy A2W + DX value added solution, featuring bi-heating and heat recovery function



3. Comfort & convenience

nanoe™ X air purification and cloud connectivity for easy management



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Product Overview

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One Outdoor Unit for synchronous
A2A and A2W supply



Heat recovery

NEW

- A2A cooling combined with A2W heating/DHW
- Instant cooling, energy efficiency

Bi-heating

NEW

- Direct expansion system with A2A heating and DHW/A2W heating

nanoe™ X

- nanoe™ X air purification standard equipped for ducted indoor unit

Non-stop defrost

NEW

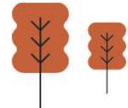
- Continuous and stable A2A heating operation

Smart convenience

- Wi-Fi adapter and remote controller included in the package
- Aquarea Smart Cloud / Service Cloud

R32 refrigerant

- Low GWP refrigerant, environmentally friendly



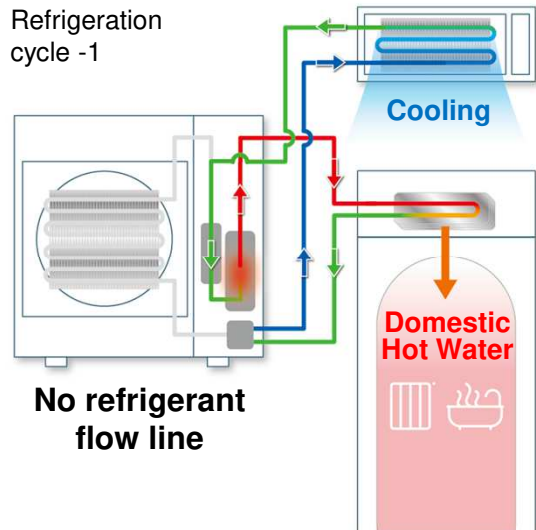
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Unique Technology that Drives the System

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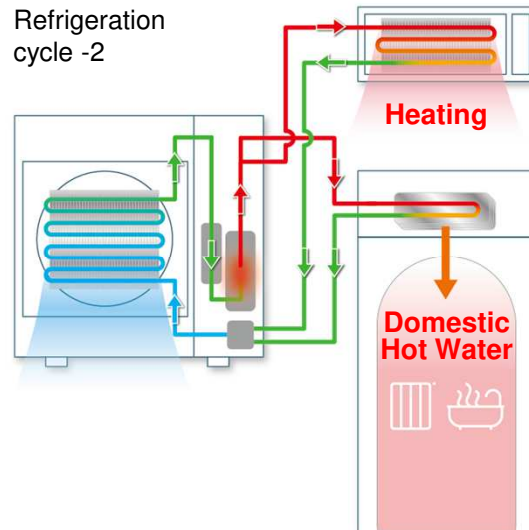
Heat recovery

Heat exchange that took place in outdoor unit now is carried out in the water heater.



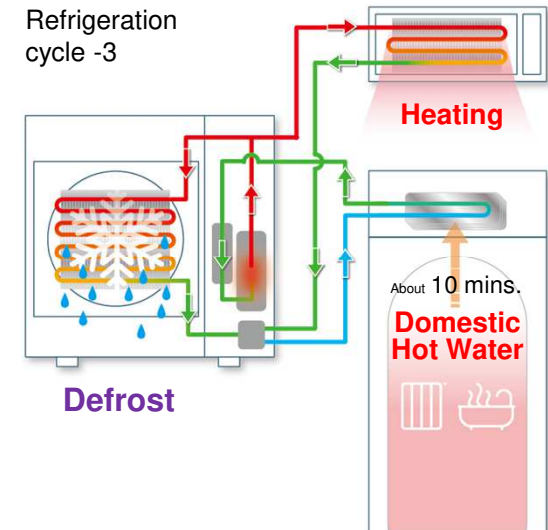
Bi-heating

Heat from the compressor is supplied for heating and DHW simultaneously.

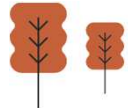


Non-stop defrost

Use heat from tank to defrost and heat simultaneously.



Refrigerant temperature Cool Hot



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Ducted Indoor Unit

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Basic information

- 7.1kW
- Static pressure level: 10 - 150 Pa
- Height: 250 mm
- Smart control ready via CONEX
- Rated up to SEER/SCOP class A++
- DC fan motor, built-in drain pump

1 Quiet Comfort

- Low noise operation (22 - 29 dB(A)*) using an improved fan casing

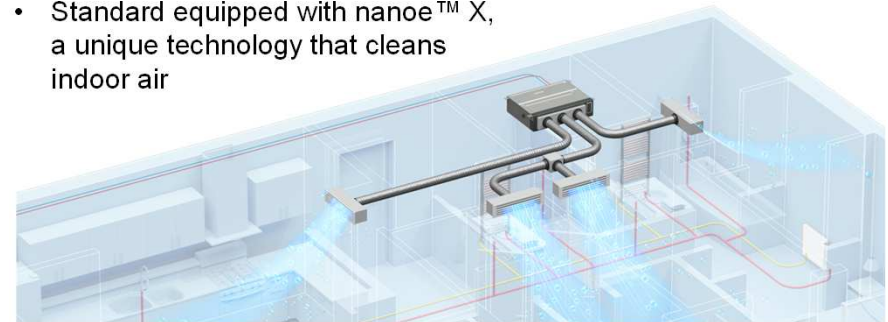


*When operating with an ESP of 50 Pa in low fan mode

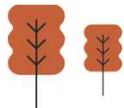
2 Superior air quality

- Standard equipped with nanoe™ X, a unique technology that cleans indoor air

nanoe™ X



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nanoe™ X Effectiveness Proven in Large Space

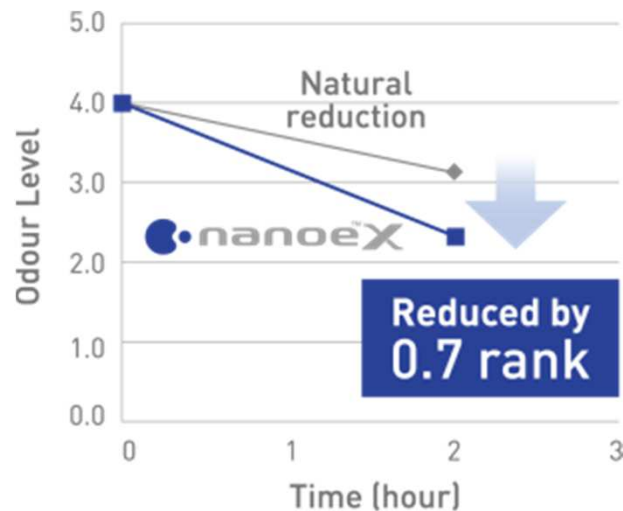
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Available from
May 2022

Adaptive ducted validation



3rd party tobacco deodorisation test
in large space (139 m²)



Result:
New nanoe™ X fan mode reduced adhered odour by 0.7 rank compared to natural reduction after 2 hours of exposure

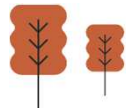
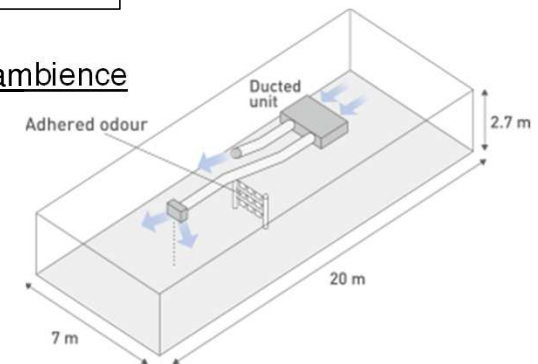
Third party certification



KAKEN

KAKEN TEST CENTER General Incorporated Foundation in Japan, international testing institute

Test ambience



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~~ETHEREA~~



Residential air-conditioning



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What happened in 2021 - RAC?

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- New Etherea XKE
 - NanoeX generator mark 2
 - Improved spec, Aerowings 2.0
- NEW 60x60 PY3 cassette for multi-split, for mono-split moved to PACi range
 - Take care – for multi PY3 applications PACi controllers have to be used



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NEW BZ wall mounted unit

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Changing points:

Available from
April 2022

1 Cosmetic design

FZ*WKE

BZ*XKE

2 Spec



Deco Badge : none / Badge : Metallic Dark Gray

Deco Badge: Gradation with Bright Silver / Badge: none

COP is improved for 2.5/3.5 /6.0kW by 0.01-0.03

25	35	50	60
x	x	x	x

1 Better indoor air quality: PM2.5 filter

2 Super-compact, matt design

3 Easy installation, easy maintenance

4 Aerowings and 20 dB(A) only!



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NEW Graphite Grey Etherea

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Changing points:

Available from
April 2022

1 Colour



20	25	35
x	X	x

1 NanoeX air quality

2 Comfort Cloud as standard

3 Easy installation, easy maintenance

4 SCOP up to 5,2

5 Aerowings and 19 dB(A) only!



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ECO*i* EX

ECO*i*

ECO G

PAC*i*

Commercial air-conditioning



What happened in 2021 - VRF?

- Mini ECOi LZ R32
 - Increased capacity index to 150% from 130%
 - -20 °C (heat), 52 °C (cool)
- R32/R410A indoor units
 - MU2 cassette, MY2 mini cassette, MK2 wall, MM1 slim duct
 - Optional R32 sensor
- MF3 adaptive duct
 - NanoeX and built in R32 sensor



What happened in 2021 - PACi?

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- PACi NX series
 - NanoeX standard
 - Multi-capacity indoor units
- Updated PACi WHE
 - 55 °C water temp. (from 50 °C)



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NEW Y3 60x60 cassette unit

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Changing point: 1. Panel 2. Air quality 3. Specification

Available from Autumn 2022

- 1 KPY4 panel Y2
- 2 NanoeX standard
- 3 Specification



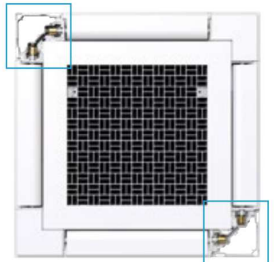
15	22	28	36	45	56
x	x	x	x	x	x

1 Only 230 mm height (from 288 mm)

2 DC drain pump, flow switch

3 NanoeX self cleaning

4 Individual flap control



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YKEA server cooling unit

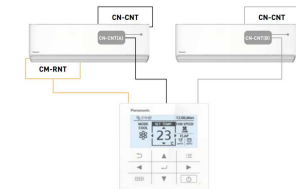
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Changing point:

Available from April 2022

2	Controller	TKEA	YKEA
3	Specification		
4	Design		

SEER improved by 1-1.1, SCOP improved by 0.1-0.2



25	35	42	50	71
x	x	x	x	x

- 1** Built-in redundancy control
- 2** Greatly improved efficiency
- 3** Built in wifi and Voice Assistant compatibility
- 4** Aerowings and easy installation



Thanks for your attention!

Questions?



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